

What is claimed is:

1. A method of manufacturing a lightweight high-strength member such as a suspension part for an automobile, the method comprising the steps of:

5 pouring molten metal of an aluminum alloy containing, by weight, 4.0 % to 10.5 % Si and 0.3 % to 1.3 % Cu into a mold to cast a preform; and

 hot-forging the preform by use of a forging die to form a final formed product.

10 2. A method of manufacturing a lightweight high-strength member according to claim 1, wherein the molten metal is pressure-cast under a pressure of not less than 39 MPa.

3. A method of manufacturing a lightweight high-strength member according to claim 1, further comprising the
15 steps of subjecting the part after forging to a solution treatment at a temperature of 530 to 545 °C for 4 to 10 hours, a hardening treatment, and an ageing treatment at a temperature of 170 to 180 °C for 6 to 10 hours.

4. A method of manufacturing a lightweight high-
20 strength member according to claim 2, further comprising the steps of subjecting the part after forging to a solution treatment at a temperature of 530 to 545 °C for 4 to 10 hours, a hardening treatment, and an ageing treatment at a temperature of 170 to 180 °C for 6 to 10 hours.

25

10040733-110404